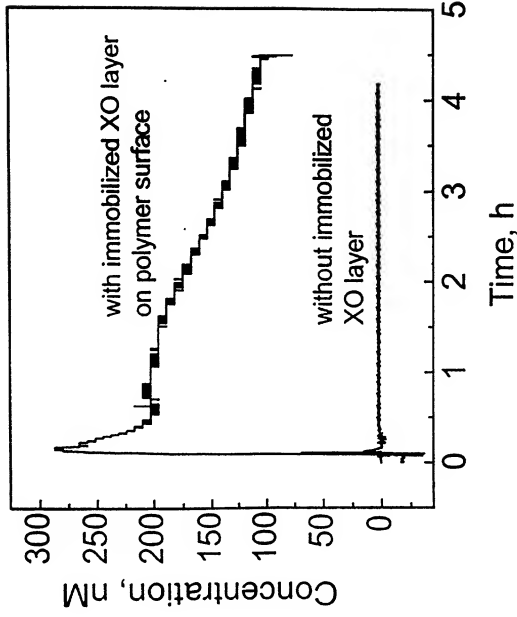




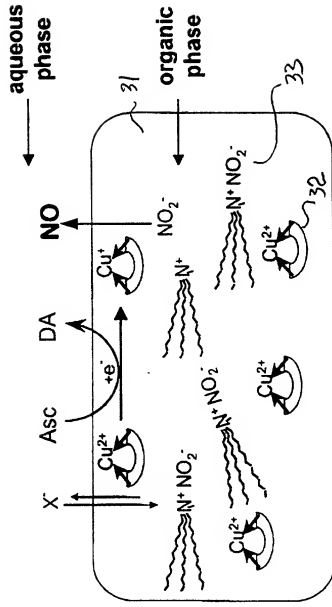
# NO Releasing Profile from Nitrite Ion-Pair Doped Polymer Films in Sheep Blood



\* distance between polymer surface and sensor is 10  $\mu\text{m}$

FIG.2

# Electron Transfer from Aqueous to Organic Phase



Asc: Ascorbate, DA: Dehydroascorbate,  $\text{X}^-$ : anion

$\text{Cu}^{2+}$  : lipophilic copper complex

FIG.3

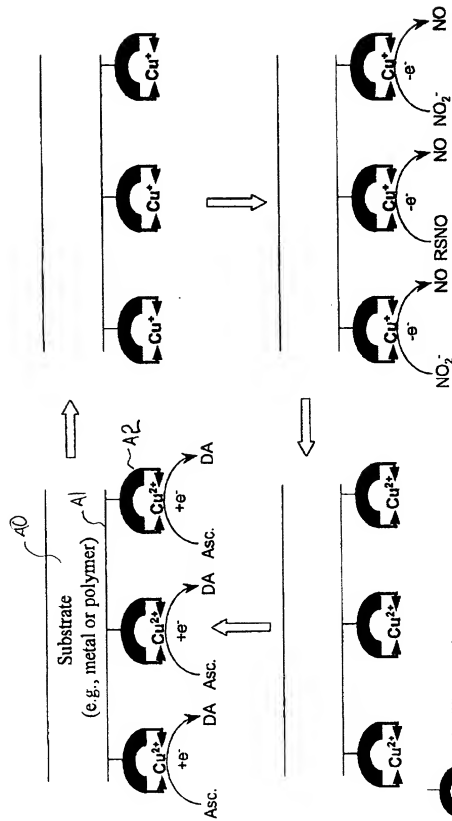
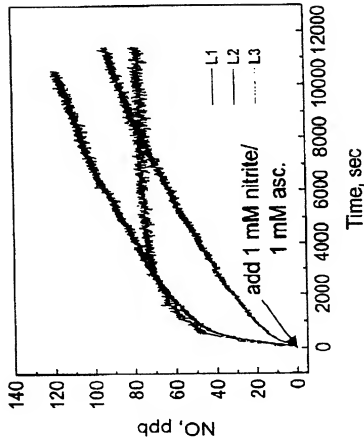


FIG. A

# NO Generation from PVC Film upon Addition of 1 mM Nitrite/1 mM Ascorbate

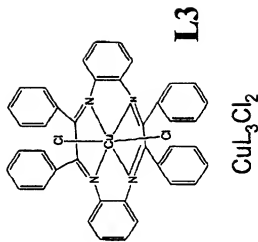
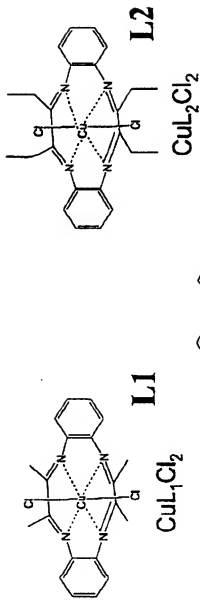


Film Formulation:  
66.7 wt% PVC (132 mg)  
33.3 wt% NPOE (66 mg)  
 $\text{Cu}_2\text{Cl}_2$  (2 mg) ( $x = 1, 2, 3$ )  
cut 1 cm disk from parent film

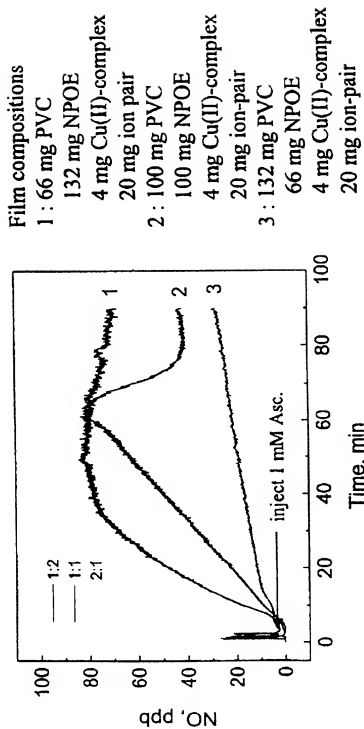
Background solution : deoxygenated PBS solution, pH 7.4

Fig 5

# Cu(II)-Complexes



# NO Generation from Nitrite Ion Pair/Cu(II)-complex(L2) Doped PVC Film upon Addition of 1 mM Ascorbate



Background solution : deoxygenated PBS, pH 7.4  
Each film contains 1.0 mg of TDMA<sup>+</sup>NO<sub>2</sub><sup>-</sup>

Fig. 7